

February 2004

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# Standards Actions



**DOE Technical  
Standards Program  
Document Status  
01-23-2004**

## **Activity Summary**

In Conversion – 4  
In Preparation – 36  
Out for Comment – 23  
Published in January – 3



## **5-year Review Status**

Revision in Progress – 13  
Reaffirmation in Progress – 26  
Cancellation Pending – 1  
Cancellation in Progress – 3  
No Current Action – 0

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## **1.0 DOE Technical Standards Projects**

The complete list of all DOE Technical Standards projects and their status is available on the Technical Standards Program web page at <http://tis.eh.doe.gov/techstds/>. To access these standards, go to our web page, click on DOE Technical Standards, then choose Projects, Approved Standards, Recently Approved Standards, or Drafts for Review, as appropriate, on the left frame of the page.

### **1.1 DOE Technical Standards Recently Sent for Coordination**

Your Technical Standards Manager (TSM) will initiate requests for specific reviewers to comment on these drafts. The full text of these documents is available on the Technical Standards Program (TSP) Web Site. If you wish to comment on these drafts, please notify your TSM. The list of TSMs can be found at <http://tis.eh.doe.gov/techstds/genframe.html>.

No entries were received during the month (January 2004).

### **1.2 DOE Technical Standards Recently Published**

The following DOE Technical Standards were recently published and posted on the TSP Web site:

- DOE-STD-1174-2004, Radiation Protection Functional Area Qualification Standard, December 2003
- DOE-STD-1176-2004, Chemical Processing Functional Area Qualification Standard, January 2004
- DOE-STD-1177-2004, Emergency Management Functional Area Qualification Standard, January 2004

Published DOE Standards (DOE Standards, Specifications, Handbooks, and Technical Standards lists) may be obtained as follows:

**DOE employees and DOE contractors** may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; phone 800-473-4375, fax 301-903-9823.

**Subcontractors and the general public** may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; phone 703-605-6000, fax 703-605-6900.

Copies are also available on the Technical Standards Program Web site.

## 2.0 Non-Government Standards

### 2.1 American National Standards Institute

American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies are available on the ANSI Web Site at [http://www.ansi.org/news\\_publications/periodicals/standards\\_action/standards\\_action.aspx?menuid=7](http://www.ansi.org/news_publications/periodicals/standards_action/standards_action.aspx?menuid=7).

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for the complete list of changes and new publications, standards developing organizations, and additional information about submitting comments. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

#### 2.1.1 American National Standards

##### 2.1.1.1 American National Standards in Coordination

The following American National Standards are currently in coordination. Comment due dates are noted before each set.

**Comment Deadline: March 1, 2004**

#### AA (ASC H35) (Aluminum Association)

##### REVISIONS

- BSR H35.1-200x, Alloy and Temper Designation Systems for Aluminum (revision of ANSI H35.1-2003)
- BSR H35.1(M)-200x, Alloy and Temper Designation Systems for Aluminum (revision of ANSI H35.1(M)-2003)

#### ASA (ASC S3) (Acoustical Society of America)

##### REVISIONS

BSR S3.6-200x, Specification for Audiometers (revision of ANSI S3.6-1996)

#### ATIS (ASC T1) (Alliance for Telecommunications Industry Solutions)

##### REVISIONS

BSR T1.202-200x, Internetwork Operations-Guidelines for Network Management of the Public Telecommunications Networks under Disaster Conditions (revision of ANSI T1.202-1998)

#### ITI (INCITS)

##### NEW STANDARDS

BSR INCITS 381-200x, Information technology-Finger Image Based Data Interchange Format (new standard)

#### UL (Underwriters Laboratories, Inc.)

##### New National Adoptions

BSR/UL 60335-2-24-200x, Standard for Safety for Household and Similar Electrical Appliances - Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers (identical national adoption)

**Comment Deadline: March 16, 2004**

#### AWS (American Welding Society)

##### NEW STANDARDS

ANSI/AWS C4.3/C4.3M-200x, Recommended Practices for Safe Oxyfuel Gas Heating Torch Operation (new standard)

**Comment Deadline: April 2, 2004**

#### NFPA (National Fire Protection Association)

##### NEW STANDARDS

BSR/NFPA 225-200x, Model Manufactured Home Installation Standard (new standard)

##### REVISIONS

- BSR/NFPA 11-200x, Low-Expansion Foam (revision of ANSI/NFPA 11-2002)
- BSR/NFPA 12-200x, Standard on Carbon Dioxide Extinguishing Systems (revision of ANSI/NFPA 12-2000)
- BSR/NFPA 13E-200x, Recommended Practice for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems (revision of ANSI/NFPA 13E-2000)
- BSR/NFPA 35-200x, Standard for the Manufacture of Organic Coatings (revision of ANSI/NFPA 35-1999)
- BSR/NFPA 50A-200x, Standard for Gaseous Hydrogen Systems at Consumer Sites (revision of ANSI/NFPA 50A-1998)
- BSR/NFPA 50B-200x, Standard for Liquefied Hydrogen Systems at Consumer Sites (revision of ANSI/NFPA 50B-1998)
- BSR/NFPA 55-200x, Standard for the Storage, Use, and Handling of Compressed Gases and Cryogenic Fluids in Portable and Stationary Containers, Cylinders, and Tanks (revision of ANSI/NFPA 55-2003)
- BSR/NFPA 76-200x, Recommended Practice for the Fire Protection of Telecommunications Facilities (revision of ANSI/NFPA 76-2002)
- BSR/NFPA 92B-200x, Guide for Smoke Management Systems in Malls, Atria, and Large Areas (revision of ANSI/NFPA 92B-2000)
- BSR/NFPA 99-200x, Standard for Health Care Facilities (revision of ANSI/NFPA 99-2002)
- BSR/NFPA 99B-200x, Standard for Hypobaric Facilities (revision of ANSI/NFPA 99B-2002)
- BSR/NFPA 110-200x, Standard for Emergency and Standby Power Systems (revision of ANSI/NFPA 110-2002)
- BSR/NFPA 111-200x, Standard on Stored Electrical Energy Emergency and Standby Power Systems (revision of ANSI/NFPA 111-2001)
- BSR/NFPA 214-200x, Standard on Water-Cooling Towers (revision of ANSI/NFPA 214-2000)

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- BSR/NFPA 326-200x, Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair (revision of ANSI/NFPA 326-1999)
- BSR/NFPA 329-200x, Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases (revision of ANSI/NFPA 329-1999)
- BSR/NFPA 501-200x, Standard on Manufactured Housing (revision of ANSI/NFPA 501-2003)
- BSR/NFPA 501A-200x, Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities (revision of ANSI/NFPA 501A-2003)
- BSR/NFPA 520-200x, Standard on Subterranean Spaces (revision of ANSI/NFPA 520-1998)
- BSR/NFPA 600-200x, Standard on Industrial Fire Brigades (revision of ANSI/NFPA 600-2000)
- BSR/NFPA 601-200x, Standard for Security Services in Fire Loss Prevention (revision of ANSI/NFPA 601-2000)
- BSR/NFPA 720-200x, Recommended Practice for the Installation of Household Carbon Monoxide (CO) Warning Equipment (revision of ANSI/NFPA 720-2003)
- BSR/NFPA 850-200x, Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations (revision of ANSI/NFPA 850-2000)
- BSR/NFPA 851-200x, Recommended Practice for Fire Protection for Hydroelectric Generating Plants (revision of ANSI/NFPA 851-2000)
- BSR/NFPA 909-200x, Code for the Protection of Cultural Resources (revision of ANSI/NFPA 909-2001)
- BSR/NFPA 1003-200x, Standard for Airport Fire Fighter Professional Qualifications (revision of ANSI/NFPA 1003-2000)
- BSR/NFPA 1035-200x, Standard for Professional Qualifications for Public Fire and Life Safety Educator (revision of ANSI/NFPA 1035-2000)
- BSR/NFPA 1410-200x, Standard on Training for Initial Emergency Scene Operations (revision of ANSI/NFPA 1410-2000)
- BSR/NFPA 1452-200x, Guide for Training Fire Service Personnel to Conduct Dwelling Fire Safety Surveys (revision of ANSI/NFPA 1452-2000)
- BSR/NFPA 1561-200x, Standard on Emergency Services Incident Management System (revision of ANSI/NFPA 1561-2002)
- BSR/NFPA 1581-200x, Standard on Fire Department Infection Control Program (revision of ANSI/NFPA 1581-2000)
- BSR/NFPA 1936-200x, Standard on Powered Rescue Tool Systems (revision of ANSI/NFPA 1936-1999)
- BSR/NFPA 1951-200x, Standard on Protective Ensemble for USAR Operations (revision of ANSI/NFPA 1951-2001)
- BSR/NFPA 1977-200x, Standard on Protective Clothing and Equipment for Wild land Fire Fighting (revision of ANSI/NFPA 1977-1998)
- BSR/NFPA 1991-200x, Standard on Vapor-Protective Ensembles for Hazardous Materials Emergencies (revision of ANSI/NFPA 1991-2000)
- BSR/NFPA 1992-200x, Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies (revision of ANSI/NFPA 1992-2000)

### 2.1.1.2 American National Standards for Final Action

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI - Audited Designator, as applicable. The date following each standard indicates its date of approval.

#### AGMA (American Gear Manufacturers Association)

##### NEW STANDARD

ANSI/AGMA 6006-2004, Design and Specification of Gearboxes for Wind Turbines (new standard): 1/9/2004

#### ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

##### SUPPLEMENTS

ANSI/ASHRAE 62n-2004, Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, and High-Rise Residential Buildings, Addenda n (supplement to ANSI/ASHRAE 62-2001): 1/8/2004

#### ITI (INCITS) (International Committee for Information Technology Standards)

##### NEW STANDARD

ANSI INCITS 377-2004, Information technology-Finger Pattern Based Interchange Format (new standard): 1/9/2004

#### MHI (Material Handling Industry)

##### REVISIONS

ANSI MH26.2-2004, Design, Testing and Utilization of Welded-Wire Rack Decking (revision of ANSI MH26.2-1997): 1/8/2004

#### NEMA (ASC C8) (National Electrical Manufacturers Association)

##### NEW STANDARDS

ANSI/ICEA P-54-440/NEMA WC-51-2002, Ampacities of Cables Installed in Cable Trays (new standard): 1/9/2004

#### SBS (Society for Biomolecular Screening)

##### NEW STANDARDS

- ANSI/SBS 1-2004, Microplates-Footprint Dimensions (new standard): 1/8/2004
- ANSI/SBS 2-2004, Microplates-Height Dimensions (new standard): 1/8/2004
- ANSI/SBS 3-2004, Microplates - Bottom Outside Flange Dimensions (new standard): 1/8/2004
- ANSI/SBS 4-2004, Microplates - Well Positions (new standard): 1/8/2004

#### SCTE (Society of Cable Telecommunications Engineers)

##### NEW STANDARD

ANSI/SCTE 40-2003, Digital Cable Network Interface Specification (new standard): 1/7/2004

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## TIA (Telecommunications Industry Association)

### NEW STANDARD

ANSI/TIA 1019-2004, Structural Standards for Steel Gin Poles Used for Installation of Antenna Towers and Antenna Supporting Structures (new standard): 1/9/2004

## UL (Underwriters Laboratories, Inc.)

### NEW STANDARD

ANSI/UL 2200-2004, Standard for Safety for Stationary Engine Generator Assemblies (new standard): 1/8/2004

### REVISIONS

- ANSI/UL 763-2004, Standard for Safety for Motor-Operated Commercial Food Preparing Machines (Bulletin dated November 10, 2003) (revision of ANSI/UL 763-2000): 1/5/2004
- ANSI/UL 2390-2004, Standard for Safety for the Test Method for Wind Resistant Asphalt Shingles with Sealed Tabs (revision of ANSI/UL 2390-2003): 1/5/2004

### 2.1.1.3 Project Initiation Notification System (PINS)

Following is a list of proposed new American National Standards or revisions to existing American National Standards that have been received from ANSI-accredited standards developers that utilize the periodic maintenance option in connection with their standards.

## AGMA (American Gear Manufacturers Association)

### REVISIONS

BSR/AGMA 6033-C200x, Materials for Marine Propulsion Gearing (revision of ANSI/AGMA 6033-B1998)

## ATIS (ASC T1) (Alliance for Telecommunications Industry Solutions)

### NEW STANDARDS

- BSR T1.338-200x, Electrical Coordination of Primary and Secondary Surge Protective Devices for Use in Telecommunications Circuits (new standard)
- BSR T1.427.01-200x, ATM based Multi-pair Bonding (new standard)
- BSR T1.427.02-200x, Ethernet Transport over Single and Multi-pair xDSL Systems (new standard)
- BSR T1.427.03-200x, TDIM Bonding Protocol (new standard)

## CSA (ASC Z21/83) (CSA America, Inc.)

### REVISIONS

- BSR/Z83.18a-200x, Recirculating Direct Gas-Fired Industrial Air Heaters (revision of ANSI Z83.18-2000, ANSI Z83.18a-2001)
- BSR Z83.4b-200x, Non-Recirculating Direct Gas-Fired Industrial Air Heaters (CSA 3.7b) (revision of ANSI Z83.4-2003, ANSI Z83.4a-2004, ANSI Z83.4b-2002)
- BSR Z83.8-200x, Gas-Fired Unit Heaters and Duct Furnaces (CSA 2.6) (revision of ANSI Z83.8-2002, ANSI Z83.8a-2003, Z83.8b)

## UL (Underwriters Laboratories, Inc.)

### REVISIONS

BSR/UL 1247-200x, Standard for Safety for Engines for Driving Pumps for Fire Protection Services (revision of ANSI/UL 1247-2000)

## 2.2 International Standards

### 2.2.1 Newly Published ISO Standards

This section lists new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization. Most are available at the ANSI Electronic Standards Store (ESS) at [www.ansi.org](http://www.ansi.org). All paper copies are available from Global Engineering documents.

## AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO 16458:2004, Space systems - Unmanned spacecraft transportation - General requirements

## FASTENERS (TC 2)

- ISO 7380:2004, Hexagon socket button head screws
- ISO 23429:2004, Gauging of hexagon sockets

## FINE CERAMICS (TC 206)

ISO 14704/Cor1:2004, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural strength of monolithic ceramics at room temperature - Corrigendum

## GRAPHIC TECHNOLOGY (TC 130)

ISO 15790:2004, Graphic technology and photography - Certified reference materials for reflection and transmission metrology - Documentation and procedures for use, including determination of combined standard uncertainty

## INFORMATION AND DOCUMENTATION (TC 46)

ISO 15511:2003, Information and documentation - International Standard Identifier for Libraries and Related Organizations (ISIL)

## MACHINE TOOLS (TC 39)

ISO 3875:2004, Machine tools - Test conditions for external cylindrical centreless grinding machines - Testing of the accuracy

## RUBBER AND RUBBER PRODUCTS (TC 45)

- ISO 7743:2004, Rubber, vulcanized or thermoplastic - Determination of compression stress-strain properties
- ISO 11237-1:2004, Rubber hoses and hose assemblies - Wire-braid-reinforced compact types for hydraulic applications - Specification - Part 1: Oil-based fluid applications

## TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO 9261:2004, Agricultural irrigation equipment - Emitters and emitting pipe - Specification and test methods

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### ISO Technical Specifications

#### INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/TS 10303-325:2004, Industrial automation systems and integration - Product data representation and exchange - Part 325: Abstract test suite: Building elements using explicit shape representation

#### ISO/IEC JTC 1, Information Technology

- ISO/IEC 7816-15:2004, Identification cards - Integrated circuit cards with contacts - Part 15: Cryptographic information application
- ISO/IEC 8824-1:2002, Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation
- ISO/IEC 8824-2:2002, Information technology - Abstract Syntax Notation One (ASN.1): Information object specification
- ISO/IEC 8824-3:2002, Information technology - Abstract Syntax Notation One (ASN.1): Constraint specification
- ISO/IEC 8824-4:2002, Information technology - Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications
- ISO/IEC 8825-1:2002, Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)
- ISO/IEC 8825-2:2002, Information technology - ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)
- ISO/IEC 8825-3:2002, Information technology - ASN.1 encoding rules: Specification of Encoding Control Notation (ECN)
- ISO/IEC 8825-4:2002, Information technology - ASN.1 encoding rules: XML Encoding Rules (XER)
- ISO/IEC 9075-1:2003, Information technology - Database languages - SQL - Part 1: Framework (SQL/Framework)
- ISO/IEC 9075-2:2003, Information technology - Database languages - SQL - Part 2: Foundation (SQL/Foundation)
- ISO/IEC 9075-3:2003, Information technology - Database languages - SQL - Part 3: Call-Level Interface (SQL/CLI)
- ISO/IEC 9075-4:2003, Information technology - Database languages - SQL - Part 4: Persistent Stored Modules (SQL/PSM)
- ISO/IEC 9075-9:2003, Information technology - Database languages - SQL - Part 9: Management of External Data (SQL/MED)
- ISO/IEC 9075-10:2003, Information technology - Database languages SQL - Part 10: Object Language Bindings (SQL/OLB)
- ISO/IEC 9075-11:2003, Information technology - Database languages SQL - Part 11: Information and Definition Schemas (SQL/Schemata)
- ISO/IEC 9075-13:2003, Information technology - Database languages SQL - Part 13: SQL Routines and Types Using the Java TM Programming Language (SQL/JRT)
- ISO/IEC 9075-14:2003, Information technology - Database languages SQL - Part 14: XML-Related Specifications (SQL/XML)
- ISO/IEC 15504-3:2004, Information technology - Process assessment Part 3: Guidance on performing an assessment
- ISO/IEC 18019:2004, Software and system engineering - Guidelines for the design and preparation of user documentation for application software

## 3.0 American Society of Mechanical Engineers (ASME)

The following listings are extracted from the ASME list of recently published standards on the ASME web site at <http://www.asme.org/codes/newdocuments.html> and are representative of NGS development activities that may be relevant to DOE operations. Refer to the ASME web site for the complete list of changes and new publications, standards developing organizations, and additional information about submitting comments.

### 3.1 ASME Standards in Coordination

The following ASME standards are currently in coordination. Comment due dates are noted after each listing.

- ASME AG-1a - 20XX, Code on Nuclear Air and Gas Treatment (Addenda to a current standard), 03/30/04
- ANS: ASME B107.19 - 20XX, Pliers, Retaining Ring (Revision of current standard), 02/10/04
- ANS: ASME B107.41 - 20XX, Nail Hammers (Revision of current standard), 02/10/04
- ANS: ASME B107.46 - 20XX, Stud, Screw and Pipe Extractors: Safety Requirements (Revision of current standard), 02/10/04
- ANS: ASME B107.53 - 20XX, Ball Peen Hammers: Safety Requirements (Revision of current standard), 02/10/04
- ANS: ASME B18.24.4 - 20XX, Part Identifying Number (PIN) Code System Standard for B18 Fastener Products (Revision, redesignation and consolidation of current standard), 3/02/04
- ANS: ASME B31.3 - 20XX, Process Piping (Revision of current standard), 02/17/04
- ANS: ASME B36.10M - 20XX, Welded and Seamless Wrought Steel Pipe (Revision of current standard), 01/27/04
- ANS: ASME B36.19M - 20XX, Stainless Steel Pipe (Revision of current standard), 01/27/04
- ANS: ASME B56.1 - 20XX, Safety Standard for Low Lift and High Lift Trucks (Revision of current standard), 03/08/04
- ASME BPEa - 20XX, Bioprocessing Equipment (Addenda to a current standard), 02/24/04
- ANS: ASME PCC-IP - 20XX, Guidelines for Inspection Planning Using Risk Based Methods (New ANS standard), 02/24/04
- ANS: ASME PTC 1 - 20XX, General Instructions (Revision of current standard), 03/02/04
- ANS: ASME PTC 19.5 - 20XX, Flow Measurement -Revision 2 (New ANS standard), 02/09/04

### 3.2 New ASME Standards Published

The following ASME standards were recently approved and published. Go to the ASME web site for information on ordering copies.

- A112.6.4-2003: Roof, Deck, and Balcony Drains
- A112.18.6-2003: Flexible Water Connectors
- B107.37-2003: Pliers- Wire Cutters/Strippers

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#### **Y14.5M-1994 and Y14.41-2003 Package Containing:**

- Y14.5M-1994 Dimensioning and Tolerancing
- Y14.41-2003 Digital Product Definition Data Practices

#### **Y14.41 - 2003 Referenced Standards Package Containing:**

- Y14.1-1995 Decimal Inch Drawing Sheet Size and Format
- Y14.1M-1995 Metric Drawing Sheet Size and Format
- Y14.2M-1992 Line Conventions and Lettering
- Y14.3M-1994 Multiview and Sectional View Drawings
- Y14.4M-1989 Pictorial Drawing
- Y14.5M-1994 Dimensioning and Tolerancing
- Y14.8M-1996 Castings and Forgings
- Y14.35M-1997 Revision of Engineering Drawings and Associated Documents
- Y14.38-1999 Abbreviations and Acronyms
- Y14.100-2000 Engineering Drawing Practices
- Y14.43-2003 Dimensioning and Tolerancing Principles for Gages and Fixtures

### **3.3 Revised ASME Standards Published**

The following ASME standards were recently approved and published. Go to the ASME web site for information on ordering copies.

- A17 CD-ROM: Elevators and Escalators (2003)
- A18.1-2003: Safety Standard for Platform Lifts and Stairway Chairlifts
- A112.19.10-2003: Dual Flush Devices for Water Closets
- A112.19.14-2001: Six-Liter Water Closets Equipped with Dual Flushing Device
- AG-1-2003: Code on Nuclear Air and Gas Treatment
- B16.5-2003 Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24
- B20.1-2003: Safety Standard for Conveyors and Related Equipment
- B30.9-2003: Slings
- B30.17-2003: Overhead and Gantry Cranes (Top Running Bridge, Single, Girder, Underhung Hoist)
- B30.20-2003: Below-the-Hook Lifting Devices
- B31.1a-2002: Addenda to ASME B31.1-2001, Power Piping
- B56.1b-2003: Addenda to ASME B56.1-2000, Safety Standard for Low Lift and High Lift Trucks
- B89.1.6-2002: Measurement of Plain Internal Diameters for Use as Master Rings or Ring Gages
- B107.13-2003: Pliers: Long Nose, Long Reach
- B107.18-2003: Pliers: Wire Twister
- B107.27-2003: Pliers: Multiple Position, Electrical Connector
- BPVC-2003: Addenda to the 2001 Edition of the ASME Boiler and Pressure Vessel Code
- MFC-1M-2003: Glossary of Terms Used in the Measurement of Fluid Flow in Pipes
- OMb-2002: Addenda to ASME OM Code-2001, Code for Operation and Maintenance of Nuclear Power Plants
- PTC 23-2003: Atmospheric Water Cooling Equipment
- RA-Sa-2003: Addenda to ASME RA-S-2002, Standard for Probabilistic Risk Assessment for Nuclear Power Applications
- RTP-1c-2003: Addenda to ASME RTP-1-2000, Reinforced Thermoset Plastic Corrosion Resistant Equipment
- STS-1a-2003: Addenda to ASME STS-1-2000, Steel Stacks

### **3.4 Other**

The following Boiler Pressure Vessel Code (BPVC) supplements were recently issued.

- BPVC Supplement No. 7 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC Supplement No. 7 to the 2001 Edition of Code Cases, Nuclear Components
- BPVC Supplement No. 10 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC Supplement No. 10 to the 2001 Edition of Code Cases, Nuclear Components

## **4.0 American Society for Testing and Materials (ASTM)**

The following list of approved standards actions was extracted from the ASTM January *Standards Action*, which can be found on the ASTM web site at [http://www.astm.org/cgi-bin/SoftCart.exe/SNEWS/JANUARY\\_2004/acta\\_jan04.html?mystore+cwck4164+1073533342](http://www.astm.org/cgi-bin/SoftCart.exe/SNEWS/JANUARY_2004/acta_jan04.html?mystore+cwck4164+1073533342). The list is representative of NGS development activities that may be relevant to DOE operations. Refer to the ASTM web site for the complete list of new publications.

### **4.1 ASTM A Standards**

A 941-03, Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys.

#### **REVISIONS**

##### **Volume 01.01, 2004**

- A 209/A 209M-03, Specification for Seamless Carbon-Molybdenum Alloy-Steel Boiler and Superheater Tubes
- A 268/A 268M-03, Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service
- A 312/A 312M-03, Specification for Seamless and Welded Austenitic Stainless Steel Pipes A 519-03, Specification for Seamless Carbon and Alloy Steel Mechanical Tubing
- A 530/A 530M-03, Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe
- A 554-03, Specification for Welded Stainless Steel Mechanical Tubing
- A 688/A 688M-03, Specification for Welded Austenitic Stainless Steel Feedwater Heater Tubes
- A 803/A 803M-03, Specification for Welded Ferritic Stainless Steel Feedwater Heater Tubes
- A 984/A 984M-03, Specification for Steel Line Pipe, Black, Plain-End, Electric-Resistance-Welded

##### **Volume 01.02, 2004**

- A 494/A 494M-03a, Specification for Castings, Nickel and Nickel Alloy

##### **Volume 01.03, 2004**

- A 370-03a, Test Methods and Definitions for Mechanical Testing of Steel Products
- A 666-03, Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
- A 923-03 (Includes change to title), Test Methods for Detecting Detrimental Intermetallic Phase in Duplex

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#### Austenitic/Ferritic Stainless Steels

- A 1011-03a, Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
- A 1018/A 1018M-03a, Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon, Commercial, Drawing, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formability

#### Volume 01.04, 2000

A 738/A 738M-03, Specification for Pressure Vessel Plates, Heat-Treated, Carbon-Manganese-Silicon Steel, for Moderate and Lower Temperature Service

#### Volume 01.04, 2004

- A 225/A 225M-03, Specification for Pressure Vessel Plates, Alloy Steel, Manganese-Vanadium-Nickel
- A 285/A 285M-03, Specification for Pressure Vessel Plates, Carbon Steel, Low- and Intermediate-Tensile Strength
- A 387/A 387M-03, Specification for Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum
- A 841/A 841M-03a, Specification for Steel Plates for Pressure Vessels, Produced by Thermo-Mechanical Control Process (Tmcp)
- A 913/A 913M-03, Specification for High-Strength Low-Alloy Steel Shapes of Structural Quality, Produced by Quenching and Self-Tempering Process (Qst)
- A 992/A 992M-03, Specification for Structural Steel Shapes

#### Volume 01.05, 2003

A 909-03, Specification for Steel Forgings, Microalloy, for General Industrial Use

#### Volume 01.06, 2004

A 623-03, Specification for Tin Mill Products, General Requirements

#### A01 on Steel, Stainless Steel and Related Alloys

##### REVISIONS

#### Volume 01.01, 2000

- A 623M-03, Specification Tin Mill Products, General Requirements (Metric)
- A 625/A 625M-03, Specification for Tin Mill Products, Black Plate, Single-Reduced
- A 650/A 650M-03, Specification for Tin Mill Products, Black Plate, Double Reduced
- A 657/A 657M-03, Specification for Tin Mill Products, Black Plate Electrolytic Chromium-Coated, Single and Double Reduced

#### A04 on Iron Castings

##### REVISIONS

#### Volume 01.02, 2000

A 888-03, Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

#### A05 on Metallic-Coated Iron and Steel Products

##### REVISIONS

#### Volume 01.06, 2004

- A 792/A 792M-03, Specification for Steel Sheet, 55 Aluminum-Zinc Alloy-Coated by the Hot-Dip Process

- A 930-03, Practice for Life-Cycle Cost Analysis of Corrugated Metal Pipe Used for Culverts, Storm Sewers, and Other Buried Conduits

## 4.2 ASTM B Standards

#### B01 on Electrical Conductors

##### REVISIONS

#### Volume 02.03, 2004

- B 227-03, Specification for Hard-Drawn Copper-Clad Steel Wire
- B 738-03, Specification for Fine-Wire Bunch-Stranded and Rope-lay Bunch-Stranded Copper Conductors for Use as Electrical Conductors
- B 856-03, Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Supported (Acss)

#### B05 on Copper and Copper Alloys

##### REVISIONS

#### Volume 02.01, 2004

- B 100-03a, Specification for Wrought Copper-Alloy Bearing and Expansion Plates and Sheets for Bridge and Other Structural Use
- B 370-03, Specification for Copper Sheet and Strip for Building Construction
- B 422-03, Specification for Copper-Aluminum-Silicon-Cobalt Alloy, Copper-Nickel-Silicon-Magnesium Alloy, Copper-Nickel-Silicon Alloy, Copper-Nickel-Aluminum-Magnesium Alloy, and Copper-Nickel-Tin Alloy
- B 465-03, Specification for Copper-Iron Alloy Plate, Sheet, Strip, and Rolled Bar

#### B07 on Light Metals and Alloys

##### REVISIONS

#### Volume 02.02, 2004

B 209M-03, Specification for Aluminum and Aluminum-Alloy Sheet and Plate [Metric]

#### B09 on Metal Powders and Metal Powder Products

##### NEW STANDARDS

#### Volume 02.05, 2004

- B 930-03, Test Method for Rating Grain Size and Frequency of Abnormally Large Grains in Cemented Tungsten Carbides Hard metals
- B 931-03, Test Method for Metallographically Estimating the Observed Case Depth of Ferrous Powder Metallurgy P/M Parts

##### REVISIONS

#### Volume 02.05, 2004

- B 213-03, Test Method for Flow Rate of Metal Powders
- B 859-03, Practice for Deagglomeration of Refractory Metal Powders and their Compounds Prior to Particle Size Analysis

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## 4.3 ASTM C Standards

### C01 on Cement

#### NEW STANDARD

#### Volume 04.01, 2003

C 1565-03, Test Method for Determination of Pack-Set Index of Portland Cement

### C03 on Chemical-Resistant Nonmetallic Materials

#### REVISIONS

#### Volume 04.05, 2004

C 414-03, Test Method for Working, Setting, and Service Strength Setting Times of Chemically Setting Chemical-Resistant Silicate and Silica Mortars

### C04 on Vitrified Clay Pipe

#### REVISIONS

#### Volume 04.05, 2004

C 1091-03a, Test Method for Hydrostatic Infiltration Testing of Vitrified Clay Pipe Lines.

### C07 on Lime

#### REVISIONS

#### Volume 04.01, 2004

- C 110-03, Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone
- C09 on Concrete and Concrete Aggregates

#### REVISIONS

#### Volume 04.02, 2003

- C 39/C 39M-03, Test Method for Compressive Strength of Cylindrical Concrete Specimens
- C 94/C 94M-00, Specification for Ready-Mixed Concrete C 117-03, Test Method for Materials Finer Than 75-mm (No. 200) Sieve in Mineral Aggregates by Washing
- C 117-03, Test Method for Materials Finer Than 75-mm (No. 200) Sieve in Mineral Aggregates by Washing
- C 1077-03, Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- C 1252-03, Test Methods for Uncompacted Void Content of Fine Aggregate as Influenced by Particle Shape, Surface Texture, and Grading

#### Volume 04.02, 2004

- C 123-03, Test Method for Lightweight Particles in Aggregate
- C 289-03, Test Method for Potential Alkali-Silica Reactivity of Aggregates Chemical Method
- C 1240-03a (Includes change to title), Specification for Silica Fume Used in Cementitious Mixtures

### C11 on Gypsum and Related Building Materials and Systems

#### REVISIONS

#### Volume 04.01, 2004

C 645-03, Specification for Nonstructural Steel Framing Members

### C15 on Manufactured Masonry Units

#### REVISIONS

#### Volume 04.05, 2003

- C 55-03, Specification for Concrete Brick
- C 129-03, Specification for Non load bearing Concrete Masonry Units
- C 140-03, Test Methods for Sampling and Testing Concrete Masonry Units and Related Units
- C 1420-03, Guide for Selection, Removal, and Shipment of Manufactured Masonry Units Placed in Usage
- E 518-03, Test Methods for Flexural Bond Strength of Masonry

#### Volume 04.05, 2004

C 1552-03, Practice for Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing

### C16 on Thermal Insulation

#### REVISIONS

#### Volume 04.06, 2003

C 1057-03, Practice for Determination of Skin Contact Temperature from Heated Surfaces Using a Mathematical Model and Thermesthesiometer

#### Volume 04.06, 2004

- C 921-03a, Practice for Determining the Properties of Jacketing Materials for Thermal Insulation
- C 1014-03, Specification for Spray-Applied Mineral Fiber Thermal and Sound Absorbing Insulation
- C 1224-03, Specification for Reflective Insulation for Building Applications

### C26 on Nuclear Fuel Cycle

#### NEW STANDARD

#### Volume 12.01, 2003

C 1554-03, Guide for Materials Handling Equipment for Hot Cells

#### Volume 12.01, 2004

C 1571-03, Guide for Characterization of Radioactive and/or Hazardous Wastes for Thermal Treatment

## 4.4 ASTM D Standards

### D01 on Paint and Related Coatings, Materials, and Applications

#### REVISIONS

#### Volume 06.01, 2004

D 5201-03a (Includes change to title), Practice for Calculating Formulation Physical Constants of Paints and Coatings

#### Volume 06.04, 2004

- D 1078-03, Test Method for Distillation Range of Volatile Organic Liquids
- D 1613-03, Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products
- D 1718-03, Specification for Isobutyl Acetate (95 % Grade)

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- D 2086-03, Test Method for Acidity in Vinyl Acetate and Acetaldehyde
- D 3130-03, Specification for n-Propyl Acetate (96 % Grade)
- D 3728-03, Specification for 2-Ethoxyethyl Acetate (99 % Grade)
- D 4835-03, Specification for Propylene Glycol Monomethyl Ether Acetate

## D04 on Road and Paving Materials

### New Standard

#### Volume 04.03, 2003

D 6928-03, Test Method for Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus

#### Volume 04.03, 2004

D 6924-03, Specification for Preformed Thermoplastic Vulcanizate Elastomeric Joint Seals for Bridges

## D05 on Coal and Coke

### Revisions

#### Volume 05.06, 2004

D 6883-03a, Practice for Manual Sampling of Stationary Coal from Railroad Cars, Barges, Trucks, or Stockpiles

## D07 on Wood

### Revisions

#### Volume 04.10, 2004

- D 5055-03, Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists
- D 6555-03, Guide for Evaluating System Effects in Repetitive-Member Wood Assemblies

## D11 on Rubber

### REVISIONS

#### Volume 09.01, 2004

D 4483-03, Practice for Evaluating Precision for Test Method Standards in the Rubber and Carbon Black Manufacturing Industries

## D18 on Soil and Rock

### NEW STANDARD

#### Volume 04.09, 2003

D 6911-03, Guide for Packaging and Shipping Environmental Samples for Laboratory Analysis

## D19 on Water

### REVISIONS

#### Volume 11.01, 2003

- D 2777-03, Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water
- D 6318-03, Practice for Calibrating a Fathometer Using a Bar Check Method

## D32 on Catalysts

### REVISIONS

#### Volume 05.05, 2004

- D 1977-03, Test Method for Nickel and Vanadium in FCC Equilibrium Catalysts by Hydrofluoric/sulfuric Acid
- Decomposition and Atomic Spectroscopic Analysis
- D 3663-03, Test Method for Surface Area of Catalysts and Catalyst Carriers
- D 3908-03 (Includes change to title), Test Method for Hydrogen Chemisorption on Supported Platinum Catalysts by Volumetric Vacuum Method
- D 4164-03, Test Method for Mechanically Tapped Packing Density of Formed Catalyst and Catalyst Carriers
- D 4180-03, Test Method for Vibratory Packing Density of Formed Catalyst Particles and Catalyst Carriers
- D 4222-03 (Includes change to title), Test Method for Determination of Nitrogen Adsorption and Desorption Isotherms of Catalysts and Catalyst Carriers by Static Volumetric Measurements
- D 4512-03, Test Method for Vibrated Apparent Packing Density of Fine Catalyst and Catalyst Carrier Particles and Powder
- D 4567-03, Test Method for Single-Point Determination of Specific Surface Area of Catalysts and Catalyst Carriers Using Nitrogen Adsorption by Continuous Flow Method
- D 4699-03, Test Method for Vibratory Packing Density of Large Formed Catalyst and Catalyst Carrier Particles
- D 4781-03, Test Method for Mechanically Tapped Packing Density of Fine Catalyst Particles and Catalyst Carrier Particles
- D 4824-03, Test Method for Determination of Catalyst Acidity by Ammonia Chemisorption
- D 6175-03 (Includes change to title), Test Method for Radial Crush Strength of Extruded Catalyst and Catalyst Carrier Particles

## 4.5 ASTM E Standards

### E05 on Fire Standards

### REVISIONS

#### Volume 04.07, 2003

E 84-03b, Test Method for Surface Burning Characteristics of Building Materials

### E06 on Performance of Buildings

### NEW STANDARD

#### Volume 04.11, 2000

E 2269-03, Test Method for Determining Argon Concentration in Sealed Insulating Glass Units Using Gas Chromatography

### REVISIONS

#### Volume 04.07, 2000

E 2178-03, Test Method for Air Permeance of Building Materials

### E07 on Nondestructive Testing

### REVISIONS

#### Volume 03.03, 2003

- E 1316-03, Terminology for Nondestructive Examinations
- E 1647-03 (Includes change to title), Practice for Determining Contrast Sensitivity in Radiology

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## **E10 on Nuclear Technology and Applications**

### **NEW STANDARD**

#### **Volume 12.02, 2003**

E 2303-03, Guide for Absorbed-Dose Mapping in Radiation Processing Facilities

### **REVISIONS**

#### **Volume 12.02, 2003**

E 666-03, Practice for Calculating Absorbed Dose from Gamma or X Radiation

## **E15 on Industrial and Specialty Chemicals**

### **REVISIONS**

#### **Volume 15.05, 2004**

E 180-03, Practice for Determining the Precision of ASTM Methods for Analysis and Testing of Industrial and Specialty Chemicals

## **E27 on Hazard Potential of Chemicals**

### **REVISIONS**

#### **Volume 14.02, 2003**

E 1445-03, Terminology Relating to Hazard Potential of Chemicals

## **E28 on Mechanical Testing**

### **REVISIONS**

#### **Volume 03.01, 2003**

E 1949-03, Test Method for Ambient Temperature Fatigue Life of Metallic Bonded Resistance Strain Gages

## **E35 on Pesticides and Alternative Control Agents**

### **REVISIONS**

#### **Volume 11.05, 2004**

E 609-03a, Terminology Relating to Pesticides

## **E36 on Conformity Assessment**

### **REVISIONS**

#### **Volume 04.02, 2004**

E 329-03, Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction

## **E37 on Thermal Measurements**

### **REVISIONS**

#### **Volume 14.02, 2003**

- E 473-03, Terminology Relating to Thermal Analysis
- E 831-03, Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis

## **4.6 ASTM F Standards**

### **F03 on Gaskets**

### **NEW STANDARD**

#### **Volume 09.02, 2003**

F 2325-03, Classification for Multi-Layer Steel MIs and Other Metal Layer Gaskets for Transportation Applications

### **REVISIONS**

#### **Volume 09.02, 2004**

F 1574-03a, Test Method for Compressive Strength of Gaskets at Elevated Temperatures

## **F04 on Medical and Surgical Materials and Devices**

### **NEW STANDARD**

#### **Volume 13.01, 2004**

- F 2311-03, Guide for Classification of Therapeutic Skin Substitutes
- F 2315-03, Guide for Immobilization or Encapsulation of Living Cells or Tissue in Alginate Gels

### **REVISIONS**

#### **Volume 13.01, 2004**

F 1609-03, Specification for Calcium Phosphate Coatings for Implantable Materials

## **F11 on Vacuum Cleaners**

### **REVISIONS**

#### **Volume 15.08, 2004**

- F 395-03, Terminology Relating to Vacuum Cleaners
- F 431-03, Specification for Air Performance Measurement Plenum Chamber for Vacuum Cleaners
- F 608-03, Test Method for Evaluation of Carpet Embedded Dirt Removal Effectiveness of Household/Commercial Vacuum Cleaners
- F 655-03, Specification for Test Carpets and Pads for Vacuum Cleaner Testing

## **F12 on Security Systems and Equipment**

### **NEW STANDARD**

#### **Volume 15.08, 2004**

F 2247-03, Test Method for Metal Doors Used in Blast Resistant Applications (Equivalent Static Load Method)

### **REVISIONS**

#### **Volume 15.08, 2004**

F 967-03, Practice for Security Engineering Symbols

## **F16 on Fasteners**

### **REVISIONS**

#### **Volume 01.08, 2004**

- A 307-03, Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength
- A 354-03a, Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners
- A 489-03, Specification for Carbon Steel Lifting Eyes
- A 563M-03, Specification for Carbon and Alloy Steel Nuts [Metric]
- F 436-03, Specification for Hardened Steel Washers

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- F 436M-03, Specification for Hardened Steel Washers [Metric]
- F 467-03a, Specification for Nonferrous Nuts for General Use
- F 467M-03a, Specification for Nonferrous Nuts for General Use [Metric]
- F 468-03a, Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use
- F 468M-03a, Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use [Metric]
- F 812/F 812M-03, Specification for Surface Discontinuities of Nuts, Inch and Metric Series
- F 1789-03a, Terminology for F16 Mechanical Fasteners

## F17 on Plastic Piping Systems

### REVISIONS

#### Volume 08.04, 2003

- F 794-03, Specification for Poly(Vinyl Chloride) (PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter
- F 1281-03, Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Pex-Al-Pex Pressure Pipe
- F 1282-03, Specification for Polyethylene/Aluminum/Polyethylene Pe-Al-Pe Composite Pressure Pipe

#### Volume 08.04, 2004

F 949-03, Specification for Poly(Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings

## F18 on Electrical Protective Equipment for Workers

### REVISIONS

#### Volume 10.03, 2004

- F 914-03 (Includes change to title), Test Method for Acoustic Emission for Insulated and Non-Insulated Aerial Personnel Devices Without Supplemental Load Handling Attachments
- F 1430-03 (Includes change to title), Test Method for Acoustic Emission Testing of Insulated and Non-Insulated Aerial Personnel Devices with Supplemental Load Handling Attachments
- F 1742-03 Specification for PVC Insulating Sheet

## F23 on Protective Clothing

### NEW STANDARD

#### Volume 11.03, 2004

F 2298-03, Test Methods for Water Vapor Diffusion Resistance and Air Flow Resistance of Clothing Materials Using the Dynamic Moisture Permeation Cell

### REVISIONS

#### Volume 11.03, 2003

- F 955-03, Test Method for Evaluating Heat Transfer Through Materials for Protective Clothing Upon Contact with Molten Substances
- F 1186-03, Classification System for Chemicals According to Functional Groups
- F 1670-03, Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood
- F 1671-03, Test Method for Resistance of Materials Used

in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-x174 Bacteriophage Penetration as a Test System

- F 1819-03, Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood Using a Mechanical Pressure Technique

## Volume 11.03, 2004

F 1296-03, Guide for Evaluating Chemical Protective Clothing

## F26 on Food Service Equipment

### NEW STANDARD

#### Volume 15.08, 2004

F 2324-03, Test Method for Prerinse Spray Valves

#### Volume 15.08, 2004

- F 952-03, Specification for Mixing Machines, Food, Electric
- F 1217-03, Specification for Cooker, Steam
- F 1275-03, Test Method for Performance of Griddles
- F 1371-03, Specification for Vegetable Peeling Machines, Electric
- F 1568-03, Specification for Food Processors, Electric
- F 1695-03, Test Method for Performance of Underfired Broilers
- F 1919-03, Specification for Griddles, Single and Double Sided, Self-Heating, Counter or Stand Mounted Gas and Electric Fired
- F 1966-03, Specification for Dough Divider and Rounding Machines

## 4.7 ASTM G Standards

### G01 on Corrosion of Metals

### REVISIONS

#### Volume 03.02, 2003

G 1-03, Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens

## 5.0 American Nuclear Society (ANS)

The following list of approved standards actions was extracted from the ANS list of "What's New" in Standards. The complete list can be found at <http://www.ans.org/standards/new/>. The list is representative of NGS development activities that may be relevant to DOE operations.

### 5.1 ANS Project Initiations

- BSR/ANS -10.4-200x, Standard for the Verification and Validation of Scientific and Engineering Computer Programs for the Nuclear Industry (revision of ANS -10.4-1987)
- BSR/ANS -51.1-200x, Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants (revision of ANSI/ANS -51.1-1983; R1986; R1988)
- BSR/ANS -52.1-200x, Nuclear Safety Criteria for the Design of Stationary Boiling Water Reactor Plants (revision of ANSI/ANS -52.1-1983; R1988)
- BSR/ANS -58.3-200x, Physical Protection for Nuclear

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Safety Related Systems and Components (revision of ANSI/ANS -58.3-1992; R1998)

- BSR/ANS -58.23-200x, Standard on Methodology for Fire PRA (new standard)

## 6.0 National Fire Protection Association (NFPA)

The following list of approved standards actions was extracted from the NFPA News at <http://www.nfpa.org>. The list is representative of NGS development activities that may be relevant to DOE operations. See the web site for a complete list of standards actions as well as the calls for committee members and list of committees soliciting proposals.

### 6.1 NFPA Standards for Comment

- NFPA 59-2001: LP-Gases at Utility Gas Plants
- NFPA 70-2002: National Electrical Code®



### THE STANDARDS ACTIONS

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**Publication & Distribution:** *The Standards Forum* and *The Standards Actions* are electronic newsletters available from the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). To update your mailing list and/or e-mail addresses, please email us at [TechStdPgm@eh.doe.gov](mailto:TechStdPgm@eh.doe.gov) or call Norm Schwartz at 301-903-2996.

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